



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,587	01/23/2002	Sergey Fridman		4136

31009 7590 07/31/2002

VLADIMIR FRIDMAN
905 FILMORE ST.
MONTEREY, CA 93940

EXAMINER

FINEMAN, LEE A

ART UNIT	PAPER NUMBER
----------	--------------

2872

DATE MAILED: 07/31/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/683,587

Applicant(s)

FRIDMAN ET AL.

Examiner

Lee Fineman

Art Unit

2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 13-14, and 18 is/are rejected.
- 7) ☒ Claim(s) 5-12 and 15-17, and 19-25 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) ____
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: ____

DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Reference numeral 6 is not shown in fig. 2. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The abstract of the disclosure is objected to because of minor informalities. In line 1, "apparatus broadly comprises of backlighting means" should be --apparatus broadly comprises a backlighting means--. Correction is required. See MPEP § 608.01(b).

4. The disclosure is objected to because of the following informalities:

Art Unit: 2872

In paragraph 18, line 1, paragraph 24, line 1, and paragraph 62, line 11 the double quotation mark should be a single quotation mark.

In paragraph 32, lines 2 and 3, and paragraph 49, line 2 “comprises of” or “comprising of” should be --comprises a-- or --comprising a--.

In paragraph 53, lines 1, paragraph 55, line 6, paragraph 57, line 2, and paragraph 58, lines 1 and 3, the incorrect figure is referenced. All references of “on fig. 2” should be --in fig. 3--.

In paragraph 50, line 3, the word “peace” is incorrect and should be --piece--.

In paragraph 58, line 7, the word “lye” is incorrect and should be --lie--.

In paragraph 60, line 10, the word “doe” is incorrect and should be --due--.

Appropriate correction is required.

Claim Objections

5. Claims 1-2, 10-14, 18-21, and 23-25 are objected to because of the following informalities: The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

6. Claims 13 and 18 objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to

Art Unit: 2872

cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 13 and 18 do not include every limitation of the claim on which they depend.

7. Claims 5-12, 15-17, 19-20, 23, and 25 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 5-12, 15-17, and 19-25 have not been further treated on the merits.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country; more than one year prior to the date of application for patent in the United States.

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

9. Claims 1-2, 4, 13-14, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Mashitani et al., U.S. Patent No. 5,663, 831.

Art Unit: 2872

Mashitani et al. discloses an autostereoscopic display apparatus (column 6, lines 28-48) comprising a backlighting means (11 and 12) that is also a spatial light modulator/liquid crystal display, and a lens array comprising a plurality of elemental lenses (4) wherein every element is behaving as a converging lens (fig. 9) and an aperture screen (30) with an opaque material (31) and a plurality of apertures (32) place in front of the lens array and said apertures coincide with spots where the light emitted from the light source is focused by each elemental lens of the lens array (column 6, lines 11-48).

10. Claims 1, 3-4, and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsumura et al., U.S. Patent No. 6,246,451 B1.

Regarding claims 1, 3 and 4, Matsumura et al. discloses an autostereoscopic display apparatus (fig. 1) comprising a backlighting means (10), a spatial light modulator (6) which is a liquid crystal display, and a lens array (4) comprising a plurality of elemental lenses (column 6 lines 40-44) wherein every element is behaving as a diverging lens (fig. 4).

Regarding claim 13, Matsumura et al. further discloses an image projector is so far as the image is projected to the eye with the display apparatus.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Fineman whose telephone number is (703) 305-5414. The examiner can normally be reached on Monday - Friday 7:30 - 4:00.

Application/Control Number: 09/683,587


Page 6

Art Unit: 2872

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached on (703) 308-1687. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4900.

LAF
July 25, 2002



Cassandra Spyrou
Supervisory Patent Examiner
Technology Center 2800